RELEASE NOTES

Measurement Studio™

These release notes introduce Measurement Studio 8.1.1. Refer to this document for installation requirements, deployment requirements, installation instructions, information about new features and functionality, and resources in Measurement Studio.

These release notes are an extension of the *Measurement Studio User Manual*, which has not been updated for Measurement Studio 8.1.1. Select **Start»All Programs»National Instruments»<Measurement Studio>»User Manual** to access the *Measurement Studio 8.0.1 User Manual*.

Installation Requirements

To install Measurement Studio, your computer must have the following:

- Microsoft Windows XP/2000 for Visual Studio .NET 2003 or Microsoft Windows Vista/XP/2000 for Visual Studio 2005

Note Users who have Windows Vista installed should also have both Visual Studio 2005 Service Pack 1 and Visual Studio Service Pack 1 Update for Windows Vista installed on their machine.

- Microsoft .NET Framework 1.1 for Visual Studio .NET 2003 or Microsoft .NET Framework 2.0 for Visual Studio 2005 (required only for the Measurement Studio .NET class libraries)
- Standard, Professional, Enterprise Developer, Enterprise Architect, or Academic edition of Microsoft Visual Studio .NET 2003; Standard, Professional, or Team System edition of Microsoft Visual Studio 2005 (required to use the Measurement Studio integrated tools); or Visual C#, Visual Basic .NET, or Visual C++ Express Editions of Microsoft Visual Studio 2005
- Intel Pentium II class processor, 733 MHz or higher
- Video display—800 × 600, 256 colors (16-bit color recommended for user interface controls)

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- Minimum of 256 MB of RAM (512 MB or higher recommended)
- Minimum of 405 MB of free hard disk space for Visual Studio .NET 2003 support and minimum of 385 MB of free hard disk space for Visual Studio 2005 support
- Microsoft-compatible mouse
- Microsoft Internet Explorer 6.0 or later

Optional Installation—In order for links from Measurement Studio help topics to .NET Framework help topics to work, you must install the Microsoft .NET Framework SDK 1.1 or Microsoft .NET Framework SDK 2.0.

Deployment Requirements

Installing the Current Version of Measurement Studio over Previous Versions of Measurement Studio

You can have only one version of Measurement Studio installed on a system for each version of Visual Studio or the .NET Framework installed on the system. For example, you can have Measurement Studio 8.0.1 for Visual Studio .NET 2003 installed on the same system as Measurement Studio 8.1.1 for Visual Studio 2005, but you cannot have Measurement Studio 8.0.1 for Visual Studio 2005 installed on the same system as Measurement Studio 8.1.1 for Visual Studio 2005.

If you install a newer version of Measurement Studio on a machine that has a prior version of Measurement Studio installed, the newer version installer replaces the prior version functionality, including class libraries. However, the prior version assemblies remain in the global assembly cache (GAC); therefore, applications that reference the prior version continue to use the prior version .NET assemblies.[1]

The default directory for Measurement Studio 8.1 support for Visual Studio .NET 2003 (`Program Files\NationalInstruments\MeasurementStudioVS2003`) is different than the default directory for Measurement Studio 7.0 support for Visual Studio .NET 2003 (`Program Files\NationalInstruments\MeasurementStudio70`). If Measurement Studio 7.0 is installed on your machine when you install Measurement Studio 8.1, Measurement Studio 8.1 installs to the 7.0 directory. If you prefer to install Measurement Studio 8.1 to the default 8.1

[1] This does not apply to `NationalInstruments.Common.dll`. `NationalInstruments.Common.dll` uses a publisher policy file to redirect applications to always use the newest version of `NationalInstruments.Common.dll` installed on the system, for each version of the .NET Framework. `NationalInstruments.Common.dll` is backward compatible.

directory, you must first uninstall all Measurement Studio class libraries, including class libraries installed with National Instruments driver software, such as NI-488.2, NI-DAQmx, and NI-VISA.

Installing Measurement Studio

Complete the following steps to install Measurement Studio. These steps describe a typical installation. Please carefully review all additional licensing and warning dialog boxes.

Note There are separate installers for Measurement Studio support for Visual Studio .NET 2003 and Measurement Studio support for Visual Studio 2005. Repeat the installation instructions to install support for both.

1. Insert the Measurement Studio CD into the CD drive. `Autorun.exe` automatically starts. If it does not automatically start, double-click the `Autorun.exe` icon.
2. Click **Install Measurement Studio for Visual Studio .NET 2003** or click **Install Measurement Studio for Visual Studio 2005**.
3. Enter the serial number. You can find your serial number on the Certificate of Ownership card that you received with your Measurement Studio software. Click **Next**.
4. Review the information in the Product Information dialog box and click **Next**.
5. Click **Next** to install all NI software to the default installation directory, or click **Browse** to select a different installation directory, and then click **Next**.

Note The option to browse for an installation location is valid only if you have not already installed any Measurement Studio features for the version of Visual Studio that you are installing. If you have any Measurement Studio features installed, then Measurement Studio installs to the same root directory to which you installed other Measurement Studio features.

6. From the feature tree, select the features you want to install. To change the Measurement Studio installation directory, select the first feature in the list and click **Browse**. You must install Measurement Studio to a local drive. If you install Measurement Studio support for more than one version of Visual Studio, install them to different directories. Click **Next**.
7. Review the license agreement and select **I accept the License Agreement(s)**. Click **Next**.

8. In the Installation Summary dialog box, review the features you selected. Click **Next**.

Note Step 8 starts the installation of Measurement Studio. Be aware that when the installer indicates that it is removing backup files, this is a normal operation. The installer may take several minutes to complete this step.

9. If prompted, insert the Device Drivers CD and select **Rescan Drive**. If not prompted, go to step 14 on this list.
10. From the feature tree, select the Device Drivers components you want to install. To change a driver installation directory, select the driver and click **Browse**. Click **Next**.
11. In the Product Information dialog box, carefully review important information about the features you are installing. Click **Next**.
12. Review the license agreement(s) and select **I accept the License Agreement(s)**. Click **Next**.
13. In the Installation Summary dialog box, review the features you selected. Click **Next**.
14. Click the **Register** button to register Measurement Studio now, and click **Next** to complete the installation.
15. If prompted, click the appropriate restart option. If you did not install a component that requires a restart, you will not be prompted to restart.

What's New in Measurement Studio 8.1.1

Measurement Studio includes support for Visual Studio 2005 Service Pack 1, Visual Studio 2005, Visual Studio .NET 2003, and Visual Studio 6.0. Measurement Studio 8.1.1 includes support for Microsoft Windows Vista and new example locations for Measurement Studio class libraries.

Note Measurement Studio support for Visual Studio 6.0 is now considered legacy. There have been no changes to this product since Measurement Studio 8.0.1. The label on this CD reads Measurement Studio 8.0.1 Support for Visual Studio 6.0.

Measurement Studio Compliance with Windows Vista

Measurement Studio 8.1.1 includes support for Windows Vista. For more information on Windows Vista support, refer to Microsoft Windows Vista and Visual Studio support (`msdn2.microsoft.com/vstudio`) or National Instruments Windows Vista support (`www.ni.com/vista`).

Visual Studio Compliance with Windows Vista

Visual Studio 2005 supports Windows Vista, though the installation of both Visual Studio 2005 Service Pack 1 and Visual Studio Service Pack 1 Update for Windows Vista are highly recommended.

Developing Measurement Studio applications for Visual Studio .NET 2003 on Windows Vista is not supported. However, deploying existing Measurement Studio applications built with Measurement Studio support for Visual Studio .NET 2003 does work on Windows Vista.

For more information on compliance with Windows Vista, refer to Visual Studio on Windows Vista (`msdn2.microsoft.com/vstudio`).

New Example Locations for Measurement Studio Class Libraries

In previous versions of Measurement Studio, the examples were installed to a subfolder of the Measurment Studio folder, which was typically under the Program Files folder. In Measurement Studio 8.1.1, the examples are installed to a subfolder of the `My Documents` folder on XP and the `All Users\Documents` directory on Vista.

The location of the examples depends on the component, the version of Visual Studio or the .NET Framework that the example supports, the version of Measurement Studio installed on the system, and the operating system. Most of the examples are organized by class library. However, the Measurement Studio Professional and Enterprise Editions also include examples that demonstrate how to build a complete measurement application with Measurement Studio.

For more information on example locations, refer to the *Where To Find Examples* topic in the *NI Measurement Studio Help*. For additional Measurement Studio examples, refer to the NI Developer Zone at `ni.com/devzone`.

Measurement Studio Resources

As you work with Measurement Studio, you might need to consult additional resources. For detailed Measurement Studio help, including function reference and in-depth documentation on developing with Measurement Studio, refer to the *NI Measurement Studio Help* within the Visual Studio environment. The *NI Measurement Studio Help* is fully integrated with the Visual Studio help. You must have Visual Studio installed to view the online help, and you must have the Microsoft .NET Framework SDK 1.1 or the Microsoft .NET Framework SDK 2.0 installed in order for links from Measurement Studio help topics to .NET

Framework help topics to work. You can launch the *NI Measurement Studio Help* in the following ways:

- From the Windows Start menu, select **Start»All Programs»National Instruments»<Measurement Studio>»Measurement Studio Documentation**. The help launches in a stand-alone help viewer.
- From Visual Studio, select **Help»Contents** to view the Visual Studio table of contents. The *NI Measurement Studio Help* is listed in the table of contents.
- From Visual Studio, select **Measurement Studio»NI Measurement Studio Help**. The help launches within the application.

The following resources are also available to provide you with information about Measurement Studio.

- Getting Started information—Refer to the *Measurement Studio Core Overview* topic and the *Getting Started with the Measurement Studio Class Libraries* section in the *NI Measurement Studio Help* for an introduction to Measurement Studio and for walkthroughs that guide you step-by-step in learning how to develop Measurement Studio applications.
- Examples—Measurement Studio installs examples organized by class library, depending on the component, the version of Visual Studio or the .NET Framework that the example supports, the version of Measurement Studio installed on the system, and the operating system. For more information on example locations, refer to the *Where To Find Examples* topic in the *NI Measurement Studio Help*.
- NI Technical Support—Refer to the *Technical Support and Professional Services* topic in the *NI Measurement Studio Help* for more information.
- Measurement Studio Web site, `ni.com/mstudio`—Contains Measurement Studio news, support, downloads, white papers, product tutorials, and purchasing information.
- NI Developer Zone, `zone.ni.com`—Provides access to online example programs, tutorials, technical news, and a Measurement Studio Discussion Forum where you can participate in discussion forums for Visual Basic 6.0, Visual C++, and .NET Languages.
- *Measurement Studio .NET Class Hierarchy Chart* and *Measurement Studio Visual C++ Class Hierarchy Chart*—Provide overviews of class relationships within class libraries. Charts are included with all Measurement Studio packages and are posted online at `ni.com/manuals`.

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